

**REMARKS**

Prior to this Response, Claims 1-22 were pending in this application. Claims 1, 8, and 15 have been amended. Claims 23 and 24 have been added. No claims have been canceled. Therefore, claims 1-24 are presented for examination. No new matter is added by these amendments. Applicant respectfully requests reconsideration of this application as amended in view of the following remarks.

**35 U.S.C. §102 Rejection, Kangasharju et al.**

The Office Action has rejected claims 1-4, 6-8, 10, 14, 15, 17, 18, 21 and 22 under 35 U.S.C. §102(b) as being anticipated by the cited portions of Non-Patent Literature document entitled "Locating Copies of Objects Using the Domain Name System" to Kangasharju et al. (hereinafter "Kangasharju"). Applicants respectfully request the rejection be withdrawn as Kangasharju fails to teach or suggest all of the recitations of these claims in their amended form.

Claim 1, as amended, recites "a server... including a plurality of content objects" and first and second content exchanges which each comprise subsets of content portions of the plurality of content objects. The subsets of content portions were obtained from the server. A first datalink transports a first catalog of the first subset between the content exchange and the server. Similarly, a second datalink transports a second catalog of the second subset between the second content exchange and the server. Applicants believe these recitations are not taught or suggested by Kangasharju.

Kangasharju teaches a caching system that includes a location data system. Kangasharju, p. 3, ¶ 3. The LDS is a networking application that maintains mappings between URLs and servers that contain the URL. Id. Each URL has one (or more) authoritative location servers, which contains a list of resource records for the URL. Id. at p. 3, col. 2, ¶ 2. When a cache caches a new object, it sends a message to the authoritative location server responsible for the object (URL) indicating the object has been cached. Id. at p. 5, col. 2, ¶ 3.

In contrast to claim 1, Kangasharju does not disclose datalinks that transport catalogs between content exchanges which include subsets of content portions and the server

from which the subset of content portions were obtained. After a cache caches a new URL, it sends a messages to the authoritative location server responsible for the URL that the URL has been cached. In some cases, caches can send these messages in a batch message. Id. at p. 6, col. 1, ¶ 2. However, the batch message is not a catalog of content objects on the cache, only a grouping of messages that notify the authoritative location server which URL's have been cached since the last update. Additionally, the authoritative location server merely maintains mappings between URL's and the servers on which the URL's are located. Thus, these servers can not be equated with the server of claim 1, which includes a plurality of content objects from which subsets of content portions on the content exchanges are obtained.

Applicants also respectfully submit that the recitations of claim 8 are also not disclosed by Kangasharju. Claim 8 recites determining at a content exchange a first catalog of a first plurality of content objects obtained from a first server and a second catalog of a second plurality of content objects obtained from a second server. As previously discussed, the caches in Kangasharju merely create a message to an authoritative location server when an URL for which the authoritative location server is responsible is cached and these messages may be transmitted as a batch message. Kangasharju does not disclose determining catalogs of content portions. Furthermore, the messages that are sent by the caches are not for content object portions obtained from the authoritative location server.

As Kangasharju fails to teach or suggest the recitations of claims 1 and 8 discussed above, Applicants respectfully submit these claims are allowable. Applicants also believe that claim 15 is also allowable for the reasons discussed above. Claims 2-4, 6-7, 10, 14, 17, and 18 depend on one of these claims and are believed to be allowable for at least the same reasons.

Applicants also respectfully submit that claim 21, and its dependent claim 22 are also allowable. Claim 21 recites first and second datalinks to transport catalogs, which as previously discussed, Applicants believe are not disclosed by Kangasharju. Additionally, claim 21 recites a first content exchange comprising a first content object portion and a second content exchange comprising a second content object portion. The first content object portion comprises a first subset of a content object and the second content object portion comprises a second subset

of the content object. The content object is either a content file or a content stream. The Office Action has stated that content files are cached in different locations to form content objects.

Office Action, p. 8, ¶ 4. However, after careful review of the cited portions and the entire reference, Applicants can find no mention of this recitation in Kangasharju. As understood by the Applicants, objects referenced by an URL (e.g., html page) are cached. Kangasharju, p. 2, col. 2, ¶ 3. The entire object referenced by the URL is located on one cache. Applicants respectfully submit that Kangasharju does not disclose caching part of a subset of a content file or content stream on one cache and another subset of a content file or content stream on a second cache.

**35 U.S.C. §103 Rejection, Kangasharju et al. in view of Chase et al. and Tsirigotis et al.**

The Office Action has rejected claims 5, 9, 11, 13, 16, 19 and 20 under 35 U.S.C. §103(a) as being unpatentable over the cited portions of Kangasharju in view of the cited portions of European Patent No. EP 0 877 326 A2 to Chase et al. (hereinafter "Chase"). Claim 12 was rejected under 35 U.S.C. §103(a) as being unpatentable over the cited portions of Kangasharju in view of the cited portions of European Patent No. EP 0 847 020 A2 to Tsirigotis et al. (hereinafter "Tsirigotis"). These claims depend on claim 1, 8, or 15. As Chase and Tsirigotis also fail to teach or suggest transporting to a server (or receiving at the server) catalogs of subsets of content object portions obtained from the server, Applicants respectfully submit that these claims are also allowable.

**CONCLUSION**

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

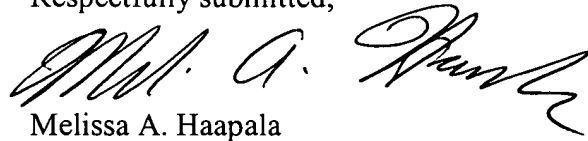
Appl. No. 09/664,147  
Response dated April 28, 2004  
Reply to Office Action of March 10, 2004

PATENT

**REQUEST FOR A TELEPHONE INTERVIEW**

If there remains any issues of allowance with this Application, the Applicants earnestly request the Examiner please telephone the undersigned at 303-571-4000.

Respectfully submitted,



Melissa A. Haapala  
Reg. No. 47, 622

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, Eighth Floor  
San Francisco, California 94111-3834  
Tel: 303-571-4000  
Fax: 415-576-0300  
MAH/nlm  
60173055 v1